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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/699,100	10/30/2003	Hilal Ezzeddine	2269-5-3	2659
	7590 05/17/2007		EXAMINER	
GRAYBEAL, JACKSON, HALEY LLP 155 - 108TH AVENUE NE			NGUYEN, TUYEN T	
SUITE 350 BELLEVUE, WA 98004-5901		•	ART UNIT	PAPER NUMBER
5222 · C2, ·			2832	
•			MAIL DATE	DELIVERY MODE
			05/17/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/699,100	EZZEDDINE, HILAL				
Office Action Summary	Examiner	Art Unit				
	TUYEN T. NGUYEN	2832				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be ting will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro-					
Disposition of Claims						
4) ⊠ Claim(s) <u>1-12</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1 and 3-12</u> is/are rejected: 7) ⊠ Claim(s) <u>2</u> is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 10.	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail D 5) Notice of Informal 6) Other:	Date				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 3-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's admitted prior art of figure 2 [AAPA] Waffenschmidt [US 6,529,363 B2].

AAPA discloses a transformer comprising:

- a common mode winding structure including first and second coils [5, 6]; and
- a differential mode winding structure including first and second coils [7, 8] electrically coupled with the common mode winding structure.

wherein the coils having the same length of $\lambda/4$.

AAPA discloses the instant claimed invention except for a capacitor.

Waffenschmidt discloses a mode-switching transformer [16, figure 3] having only one capacitor connected in series with at least one coil/winding.

It would have been obvious to one having ordinary skilled in the art at the time the invention was made to include a capacitor in series with the common mode winding structure of AAPA, as suggested by Waffenschmidt, for the purpose of enhancing the operating frequency of the transformer.

Regarding claim 4, the specific location of the capacitor would have been an obvious design consideration based on the intended application/environment use.

Regarding claims 6 and 9-10, the specific frequency of the transformer would have been an obvious design consideration based on the intended application/environment use.

Regarding claims 3, 5 and 11-12, Waffenschmidt discloses a multi-layered transformer comprising at least one coil formed of a plurality of conductive layers [1, 2, 3, 4, 5, 6] with insulating layer [8] disposed between the conductive layers and a capacitor [9] coupled to the at least one coil.

Response to Arguments

Applicant's arguments filed 2/22/2007 have been fully considered but they are not persuasive.

Applicant argues that:

- [1] Waffenschmidt does not teach a mode-switching transformer.
- [2] There is no reason to combine AAPA with Waffenschmidt.

Examiers disagrees.

Regardings [1] and [2], AAPA discloses a mode-switching transformer. In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, Waffenschmidt discloses a transformer for use in a switched-mode power supply. Skilled artisan

would have been motivated to use such a transformer of Waffenschmidt in AAPA for the purpose of enhancing the operating frequency of the transformer.

Allowable Subject Matter

Claim 2 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TUYEN T. NGUYEN whose telephone number is 571-272-1996. The examiner can normally be reached on M-F 8:30-6:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, ELVIN ENAD can be reached on 571-272-1990. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

TTN

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